Title: NUCLEIC ACID ENCODING AN AVIAN E. COLI ISS POLYPEPTIDE AND METHODS OF

USE

Applicant(s): Lisa K. Nolaz Docket: 255.0001 0122

al. Serial No.: Unassigned Filed: Herewith gess Mail No.: EL 776900374 US Sheet





FIGURE 1

Eciss ~	ATGCAGGATAATAAGATGAAAAAATGTTATTTCTGCCGCTCTGGCAATGCTTATTACA	60 -
102100		60
102155		80
lambor	ATCGGGAATAACACCATGAAAAAAATGCTACTCGCTACTGCGCTGGCCCTGCTTATTACA	60
Eciss	GGATGTGCTCAACAACGTTTACTGTTGGAAACAAACCGACAGCAGCAAACGAA	120
102500	GGATGTGCTCAACAAACGTTTACTGTTGGAAACAAACCGACAGCAGTAACACCAAAGGAA	120
102155	GGATGTGCTCAACAAACGTTTACTGTTGGAAACCAAACC	120
1ambor	GGATGTGCTCAACAGACGTTTACTGTTCAAAACAAACCGGCAGCAGTAGCACCAAAGGAA	120
Eciss	ACCATCACTCATCATTTCTTCGTTTCCCCAATTGGAC-AGAGAAAACTGTTGATGCAGCC	179
		100
102155	ACCATCACTCATCATTTCTTCGTTTCGGGAATTGGACAAGAGAAAACTGTTGATGCAGCC	180
lambor	ACCATCACCCATCATTTCTTCGTTTCTGGAATTGGGCAGAAGAAAACTGTCGATGCAGCC	180
Eciss	AAAATTTGTTGGCGGTGCAGAAAATGTTGTTAAAACAGAAACTCAGCAAACATTCGTAAA	239
4001	AAAATTTG-TGGCGGTGCAGAAAATGTTGTTAAAACAGAAACTCAGCAAACATTCGTAAA	239
102155	AAAATTIG-TGGCGGTGCAGAAAATGTTGTTAAAACAGAAACTCAGCAAACATTCGTAAA	233
lambor	AAAATTTG-TGGCGGCGCAGAAAATGTTGTTAAAACAGAAACCCAGCAAACATTCGTAAA	239
Eciss	TGCATTGCCCGGTTTTATCACTTTTGGCATCTATACTCCGCGGGAAACCCGTGTATATTG	299
102iss		299
102155		
lambor	TGGATTGCTCGGTTTTATTACTTTAGGCATTTATACTCCGCTGGAAGCGCGTGTGTATTG	299
		309
Eciss	CTCACAATAG	309
102iss	CTCACAATAG	.309
lambor	CTCACAATAA	309

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FIGURE 2

Iss_Ec MQDNKMKKMLFSAALAMLITGCAQQTFTVGNKPTAVTPKETITHHFFVSPIGQRKLLMQP	60
	60
102Iss MQDNKMKKMLFSAALAMLITGCAQQTFTVGNKPTAVTPKETITHHFFVSGIGQEKTVDAA	00
lamBor MKKMLLATALALLITGCAQQTFTVQNKPAAVAPKETITHHFFVSGIGQKKTVDAA	55
·	100
Iss_Ec KFVGGAENVVKTETQQTFVNALPGFITFGIYTPRETRVYCSQ	102
:	102
	102
lamBor KtCGGAENVVKTETOOTFVNGLLGFITLGIYTPLEARVYCSQ	97

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FIGURE 3

L G G P L CTG GAA GTT CTG TTC CAG GGG CCC CTG GGA TCC ATG CAG GAT AAT BamHI iss fusion start PreScission Protease

Α L I M S Α Α K K K AAG ATG AAA AAA ATG TTA TTT TCT GCC GCT CTG GCA ATG CTT ATT

G N K F T ACA GGA TGT GCT CAA CAA ACG TTT ACT GTT GGA AAC AAA CCG ACA

K E Т I \mathbf{T} Н H F S Α GCA GTA ACA CCA AAG GAA ACC ATC ACT CAT CAT TTC TTC GTT TCG

E K D _ ...A K Ι G G I G GGA ATT GGA CAA GAG AAA ACT GTT GAT GCA GCC AAA ATT TGT GGC

ĸ Т E \mathbf{T} F Α E N V V Q T V G GGT GCA GAA AAT GTT GTT AAA ACA GAA ACT CAG CAA ACA TTC GTA

F I F G I Y L N G AAT GGA TTG CTC GGT TTT ATC ACT TTT GGC ATC TAT ACT CCG CTG

C S E GAA GCC CGG GTA TAT TGC TCA CAA TAG TTG CCC ATC GAT ATG GGG

AGC TCA TCT GCG AAT TCC **EcoRI**

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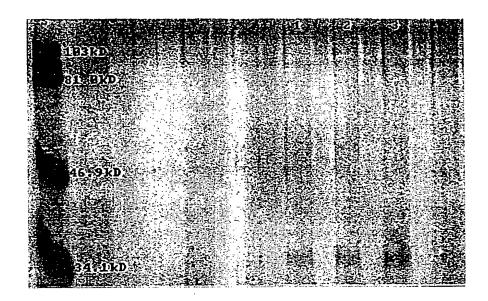
FIGURE 4

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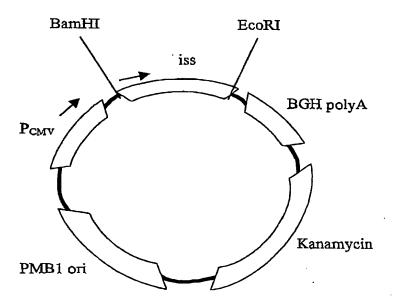
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FIGURE 5



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et al. Serial No.: Unassigned Filed: Herewith Express Mail No.: EL 776900374 US Shee Applicant(s): Lisa K. Docket: 255.0001 0122 Sheet 6



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